



United Nations
International Strategy for Disaster Reduction

Security and Climate Change Disaster Risk Reduction

Where is the frontline and some solutions.

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**Disaster risk is driven
by vulnerability:
Poverty
Rapid unplanned
urbanization
Weak governance
Ecosystem
degradation**

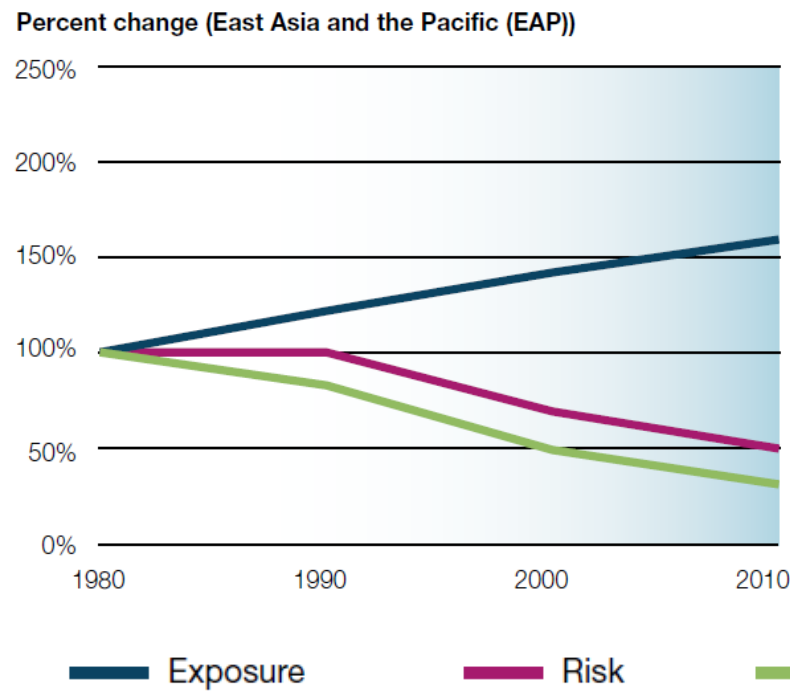
Photo source: Mayor of Saint-Louis

DEVELOPMENT GAINS LOST IN SECONDS- Collapsed school

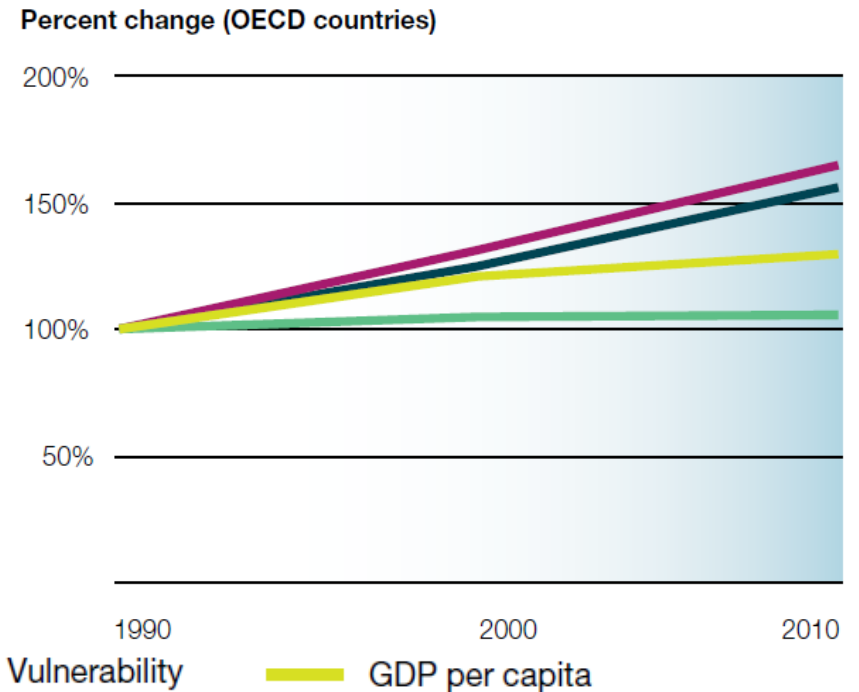


Falling mortality – rising economic loss risk

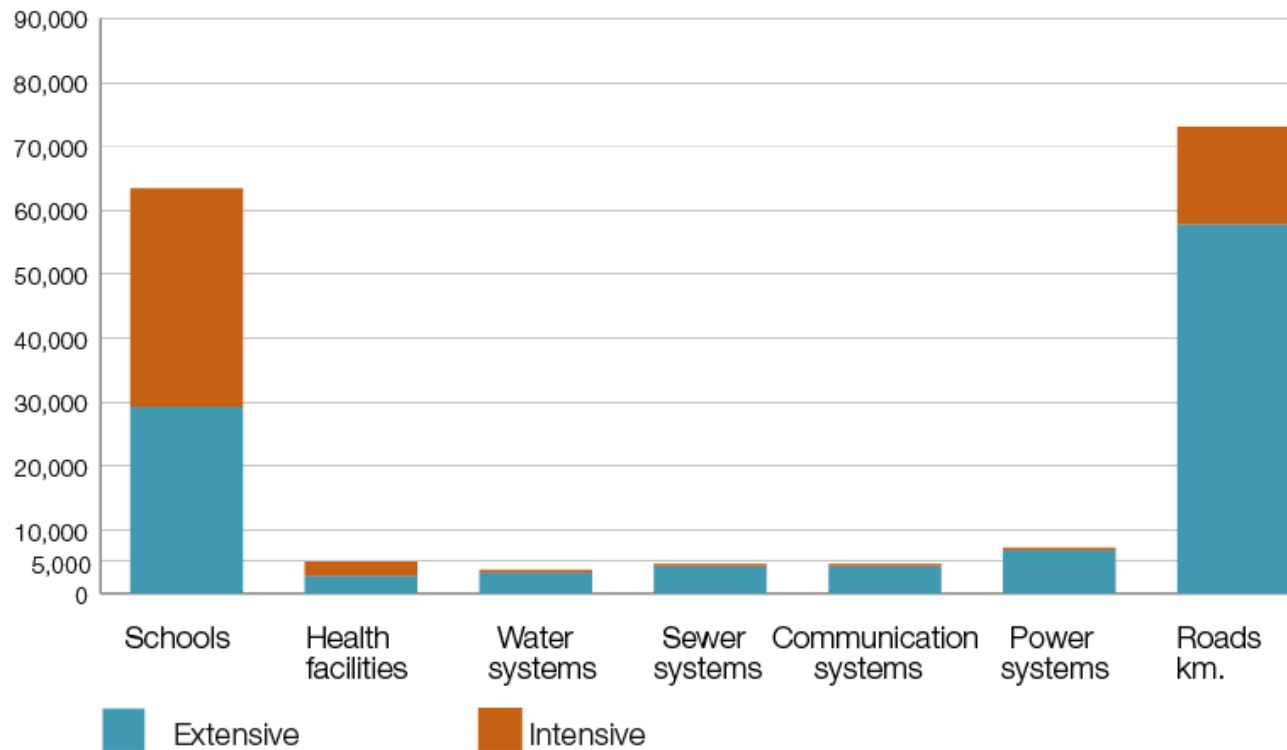
Flood mortality risk



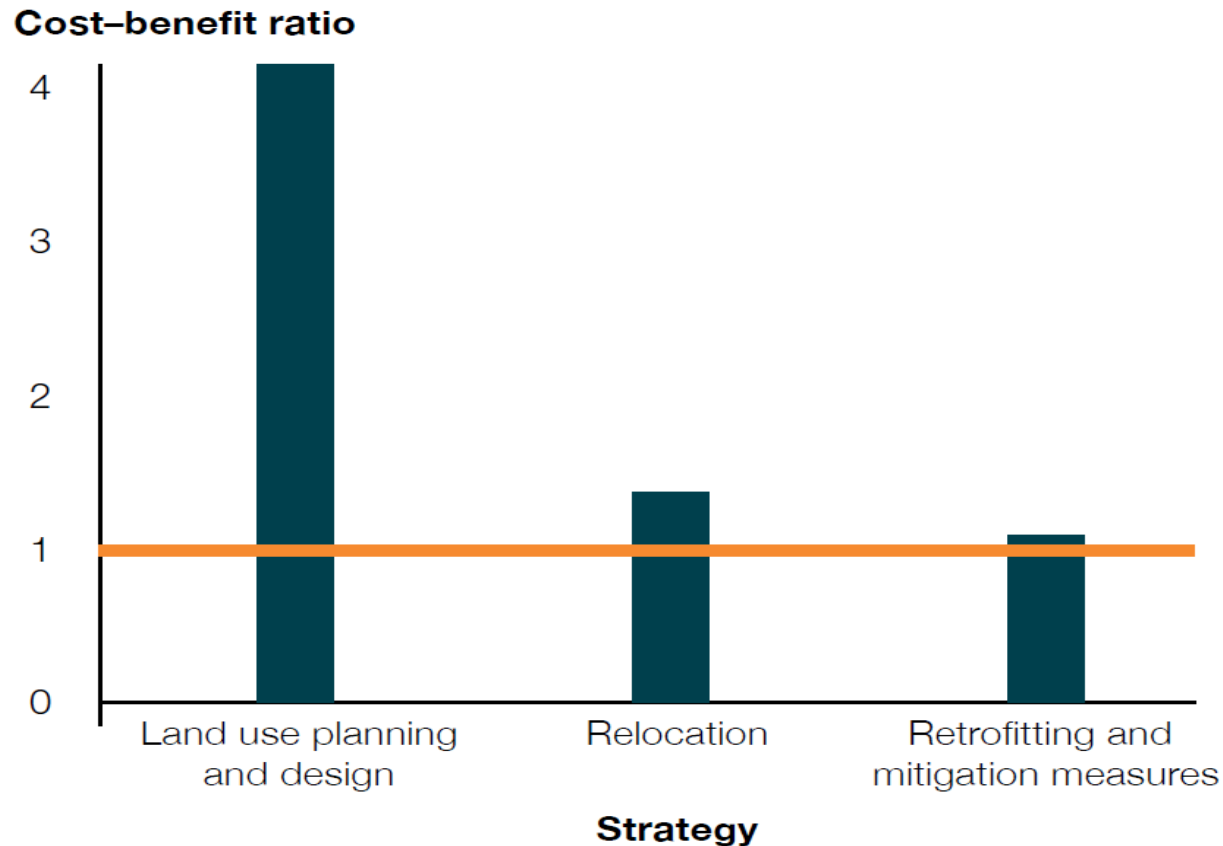
Flood economic loss risk



Risks have been built up over time... and through public and private investments



Build resilience- protect the development goals through public and private investment planning



Complexity of solutions

regulations for urban infrastructure projects

city drainage map

analysing hourly rainfall intensity

construct dams, dykes and seawalls

environmental protection

community education and resilience

multi-stakeholder process

green infrastructure on roofs, streets and sidewalks

land-use planning

law on the conservation of natural drainage

assess the flood risks

social protection for affected families

comprehensive water resource
management and development programme

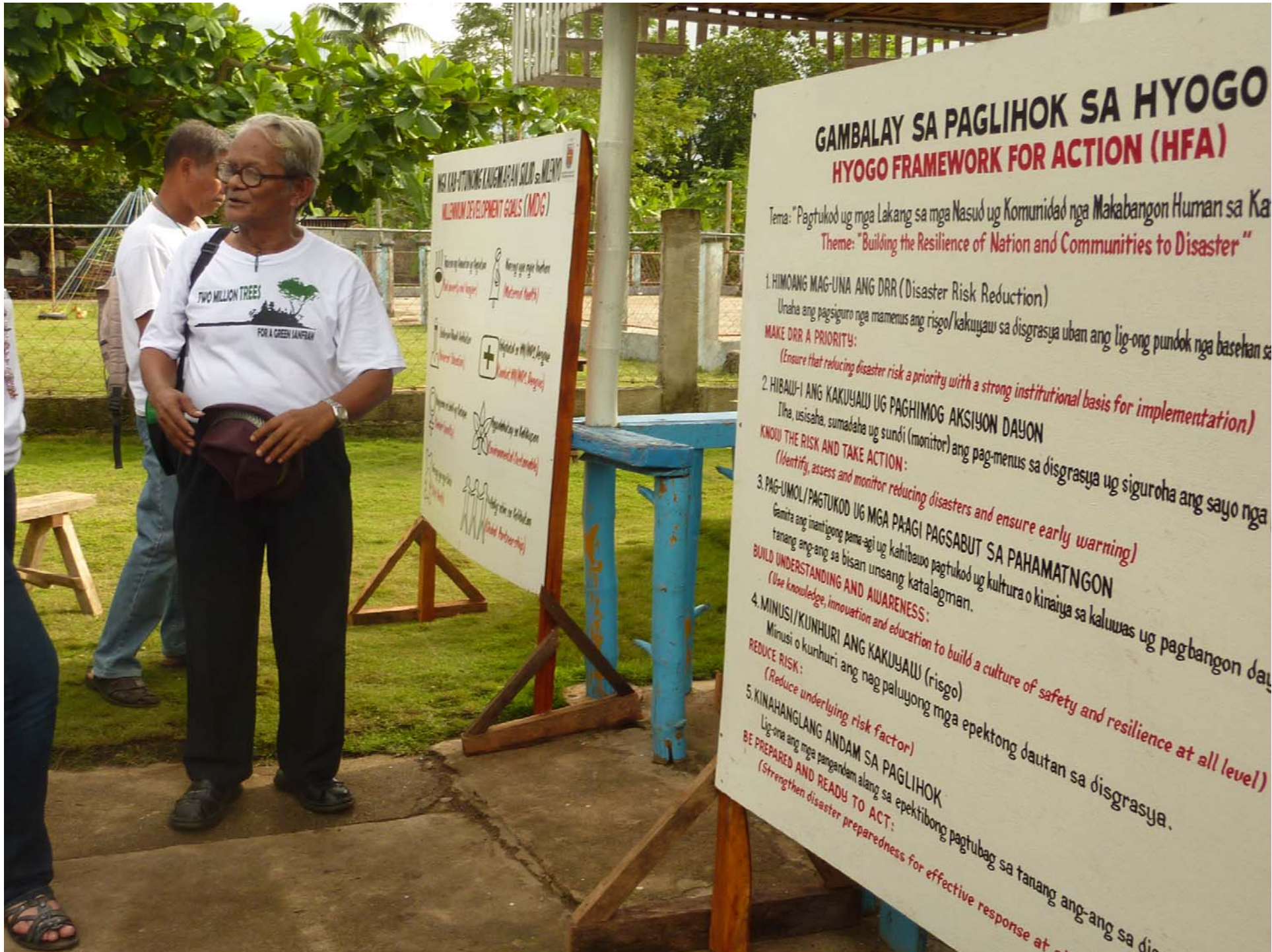
flood monitoring and warning systems

assess hazards and vulnerability



Participation- resilience





GAMBALAY SA PAGLIHOK SA HYOGO HYOGO FRAMEWORK FOR ACTION (HFA)


Tema: "Pagtukod ug mga Lakang sa mga Nasud ug Komunidad nga Makabangon Human sa Ka"
Theme: "Building the Resilience of Nation and Communities to Disaster"

- HIMOANG MAG-UNA ANG DRR (Disaster Risk Reduction)**
Uraha ang pagsiguro nga mamenu ang risgo/kakuyaw sa disgrasya uban ang lig-ong pundok nga basehan sa
MAKE DRR A PRIORITY:
(Ensure that reducing disaster risk a priority with a strong institutional basis for implementation)
- HIBAW-I ANG KAKUYAW UG PAGHIMOG AKSIYON DAYON**
Iha, usisaha, sumalaha ug sundi (monitor) ang pag-menus sa disgrasya ug siguroha ang sayo nga
KNOW THE RISK AND TAKE ACTION:
(Identify, assess and monitor reducing disasters and ensure early warning)
- PAG-UMOL/PAGTUKOD UG MGA PAAGI PAGSABUT SA PAHAMATNGON**
Gamita ang inangitong pami-agi ug kahibawo pagtukod ug kultura o kinaiya sa kaluwas ug pagbangon da
tanang ang-ang sa bisan unsang katalagman.
BUILD UNDERSTANDING AND AWARENESS:
(Use knowledge, innovation and education to build a culture of safety and resilience at all level)
- MINUSI/KUNHURI ANG KAKUYAW (risgo)**
Minusi o kunhuri ang nag paluyong mga epektong dautan sa disgrasya.
REDUCE RISK:
(Reduce underlying risk factor)
- KINAHANGLANG ANDAM SA PAGLIHOK**
Lig-ona ang mga pangandam alang sa epektibong pagtubag sa tanang ang-ang sa di
BE PREPARED AND READY TO ACT:
(Strengthen disaster preparedness for effective response at

MGA LAKANG-PATUNONG KAUGMAHAN SA MILYEN
MILLENNIUM DEVELOPMENT GOALS (MDG)

- 1. **Maingon** (Poverty reduction) - *Maingon sa mga tawo (Poverty reduction)*
- 2. **Maingon** (Hunger reduction) - *Maingon sa mga tawo (Hunger reduction)*
- 3. **Maingon** (Gender equality) - *Maingon sa mga tawo (Gender equality)*
- 4. **Maingon** (Child mortality) - *Maingon sa mga tawo (Child mortality)*
- 5. **Maingon** (Maternal health) - *Maingon sa mga tawo (Maternal health)*
- 6. **Maingon** (Environmental sustainability) - *Maingon sa mga tawo (Environmental sustainability)*
- 7. **Maingon** (Climate change) - *Maingon sa mga tawo (Climate change)*

TWO MILLION TREES
FOR A GREEN JAMBUJA

A decorative graphic in the top-left corner consisting of a light blue square with a smaller red square in its bottom-left corner.

Reducing disaster risk essential
for development- yes..... But
how make it part of the
development goals?

Not only about emergency response-
addressing underlying vulnerability

Hyogo Framework for Action 2005-2015 Building the Resilience of Nations and Communities to Disasters -- priorities

1. **Make disaster risk reduction a priority:** Ensure that reducing disaster risk is a national and local priority with a strong institutional basis for implementation
2. **Know the risks and take action:** Identify, assess and monitor disaster risk- urban risk assessments - and ensure early warning
3. **Build understanding and awareness:** Use knowledge, innovation and education to build a culture of safety and resilience at all levels - PARTICIPATION
4. **Reduce risk:** Reduce underlying risk factors - PLAN AND ENFORCE
5. **Be prepared and ready to act:** Strengthen disaster preparedness for effective response at all levels

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HFA

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International Strategy for Disaster Reduction

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